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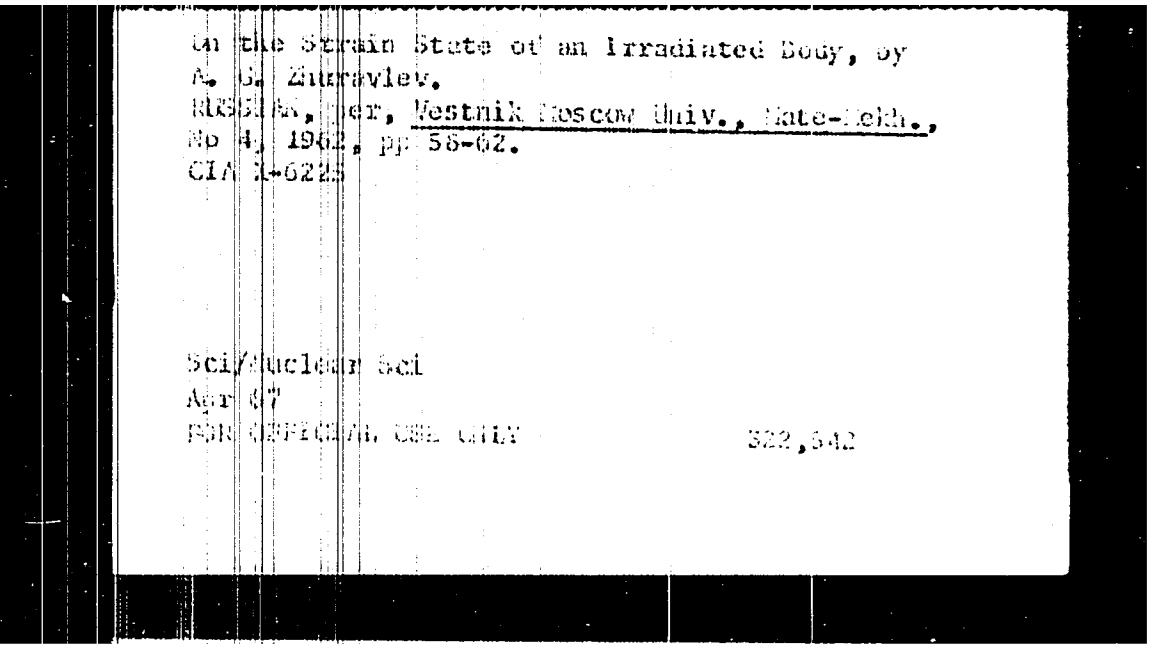

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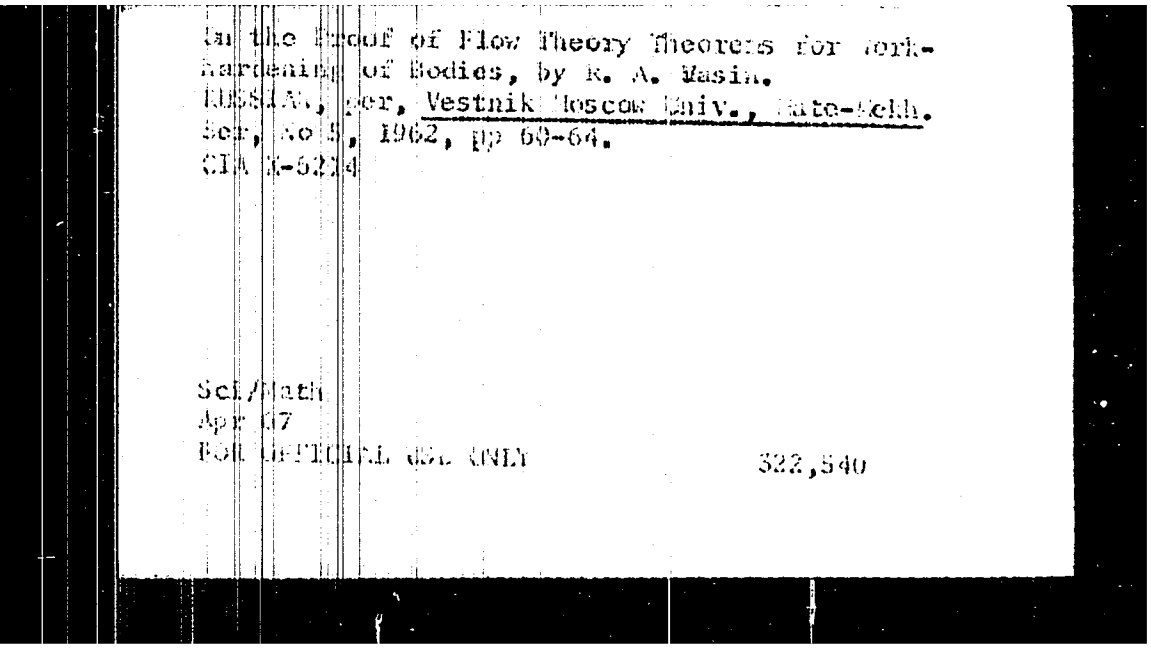

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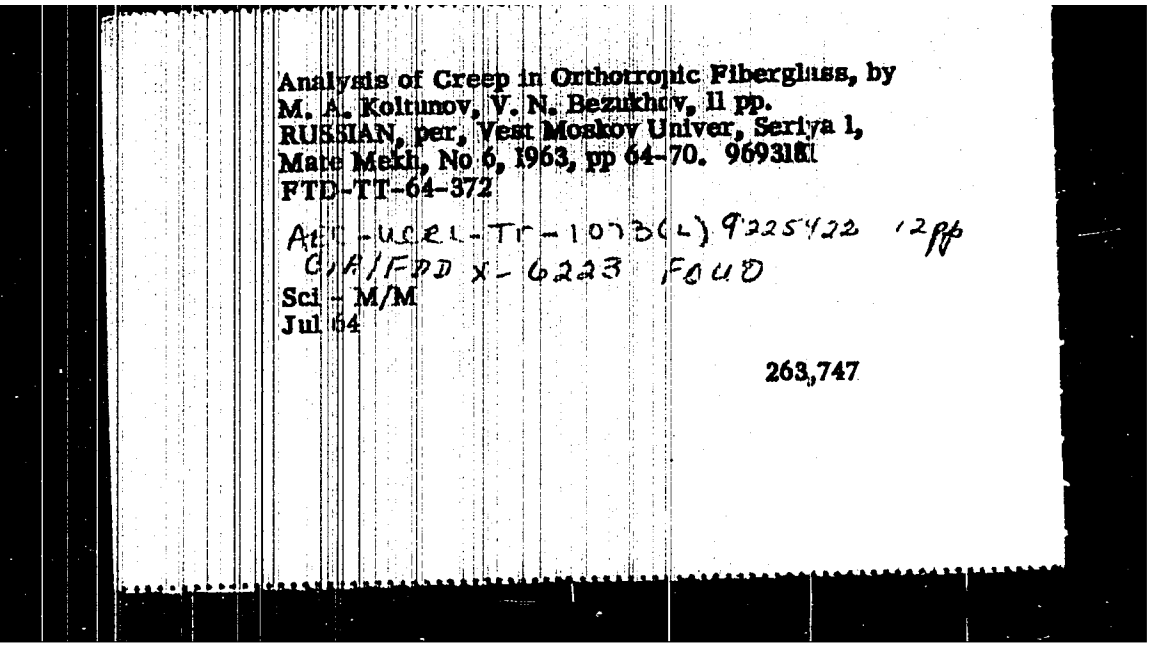

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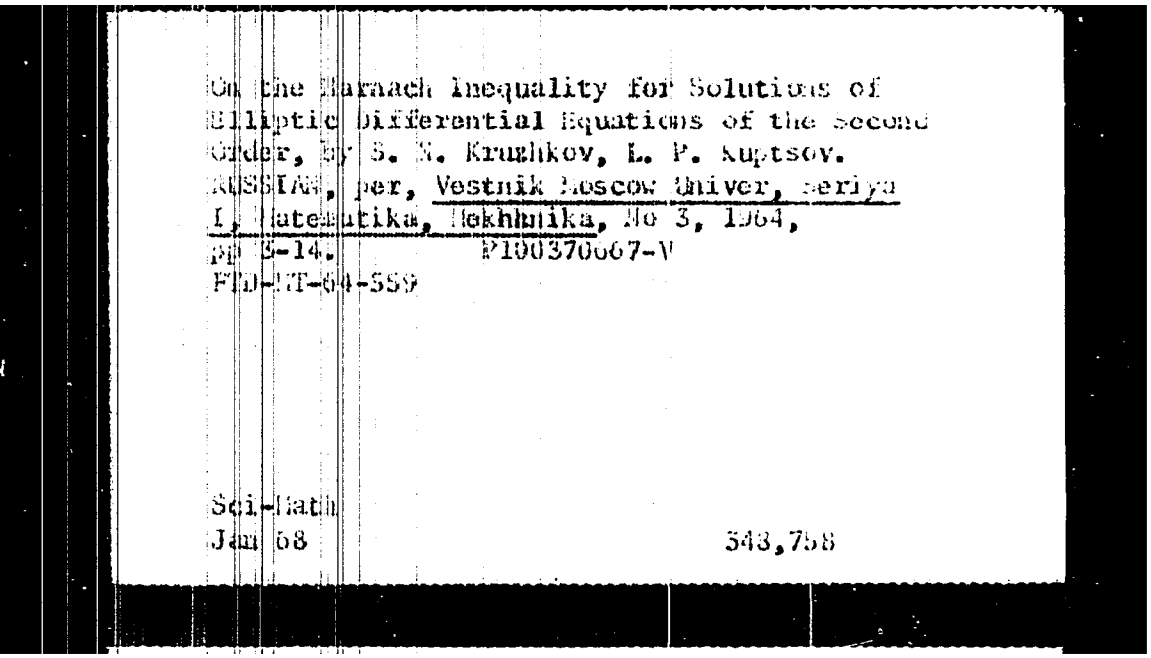

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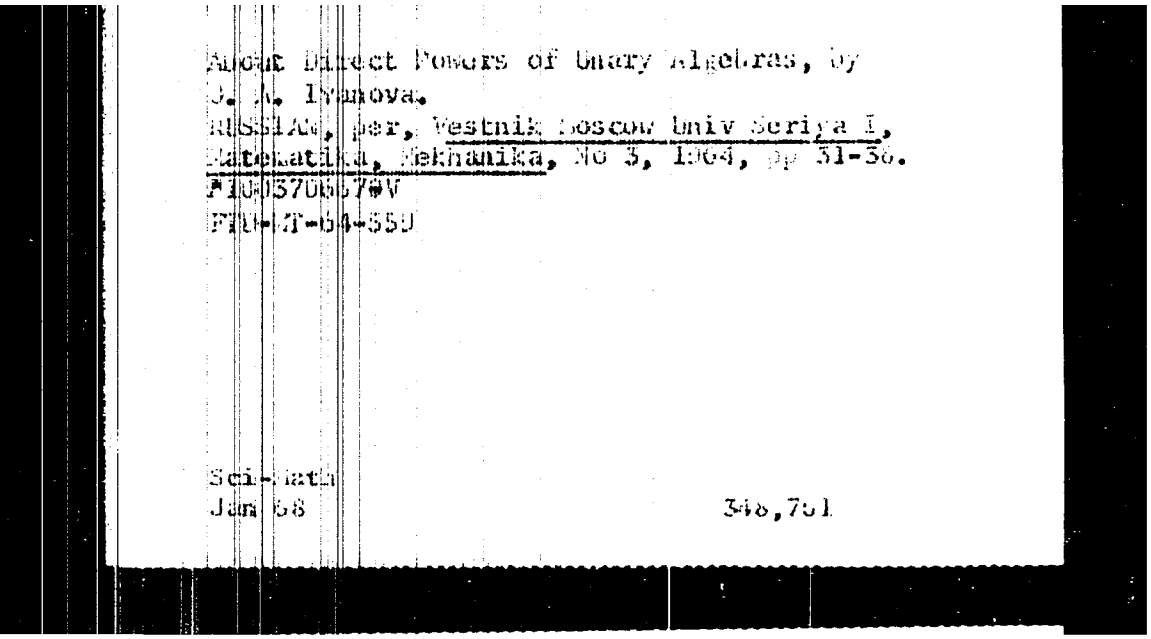

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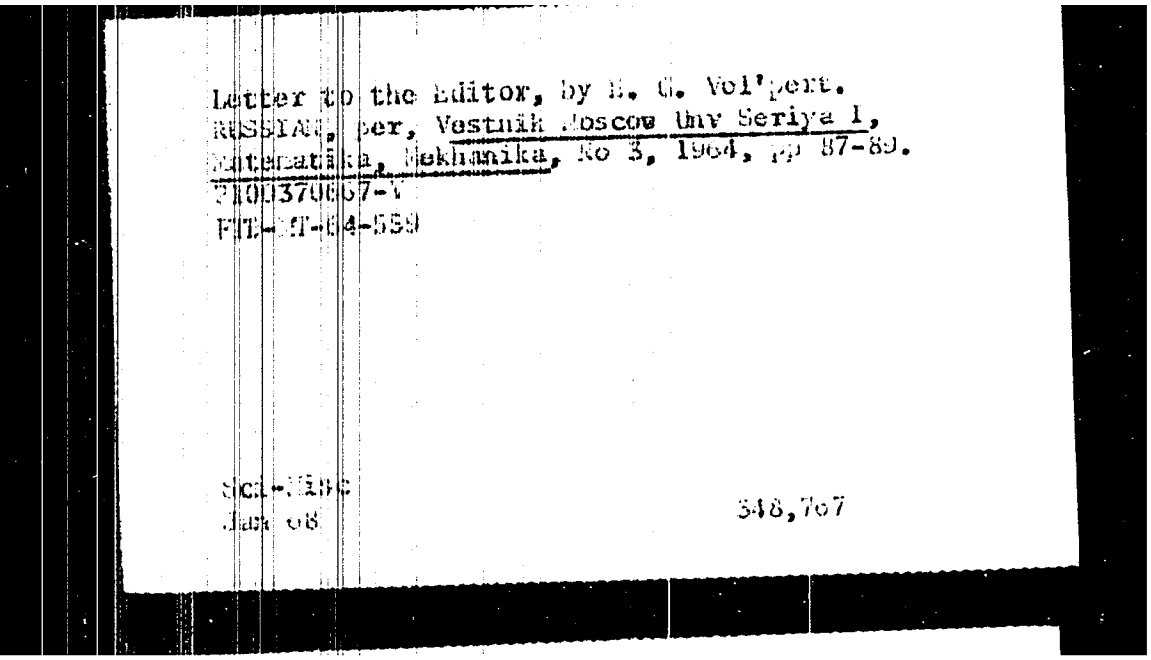

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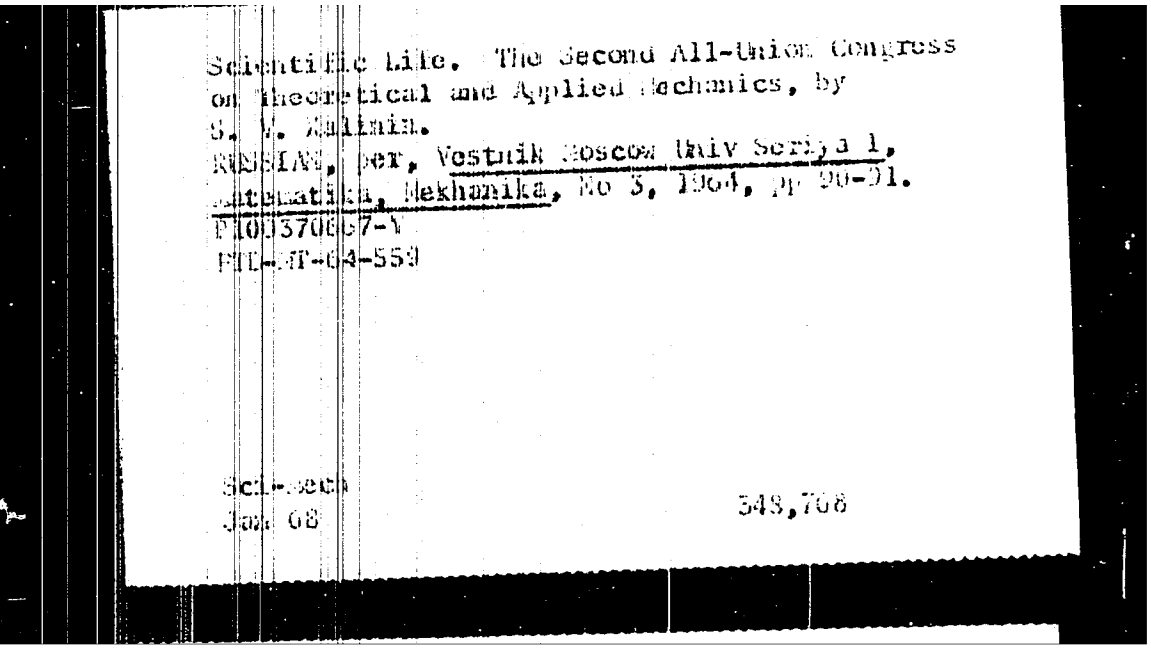

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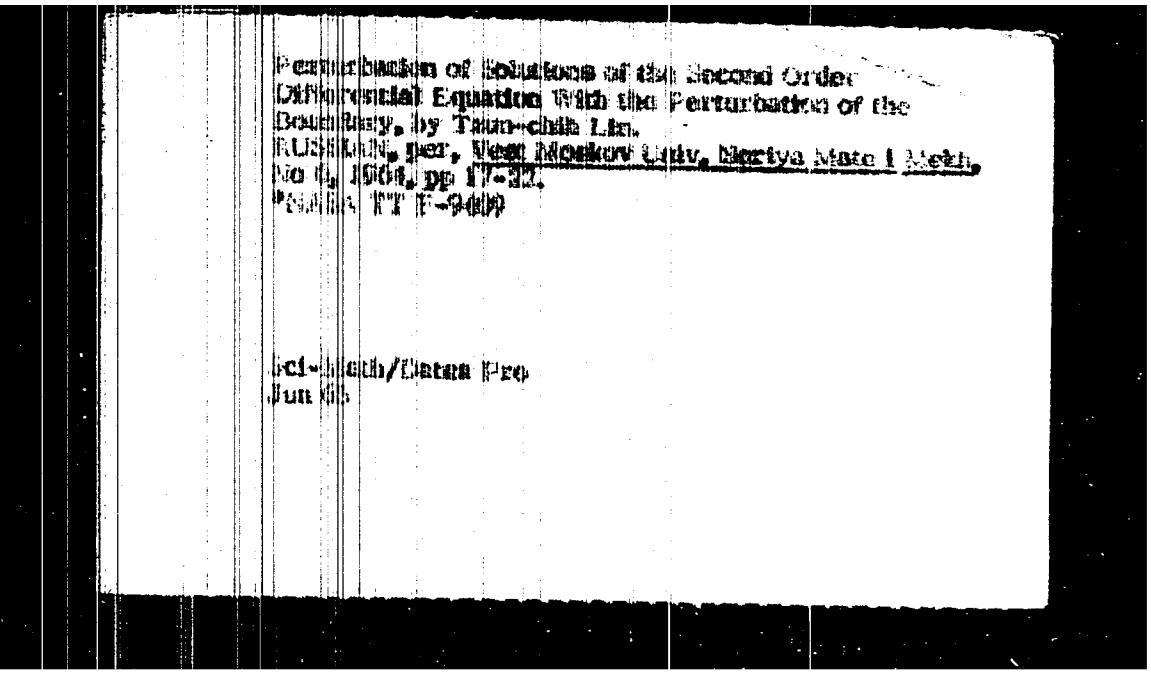

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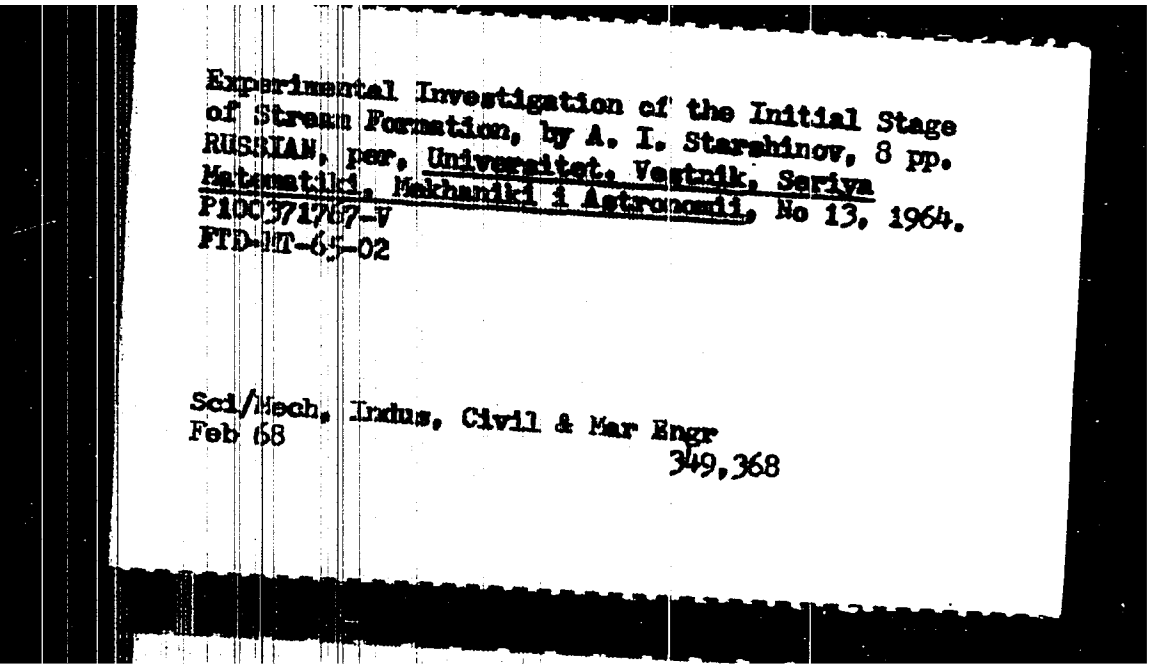

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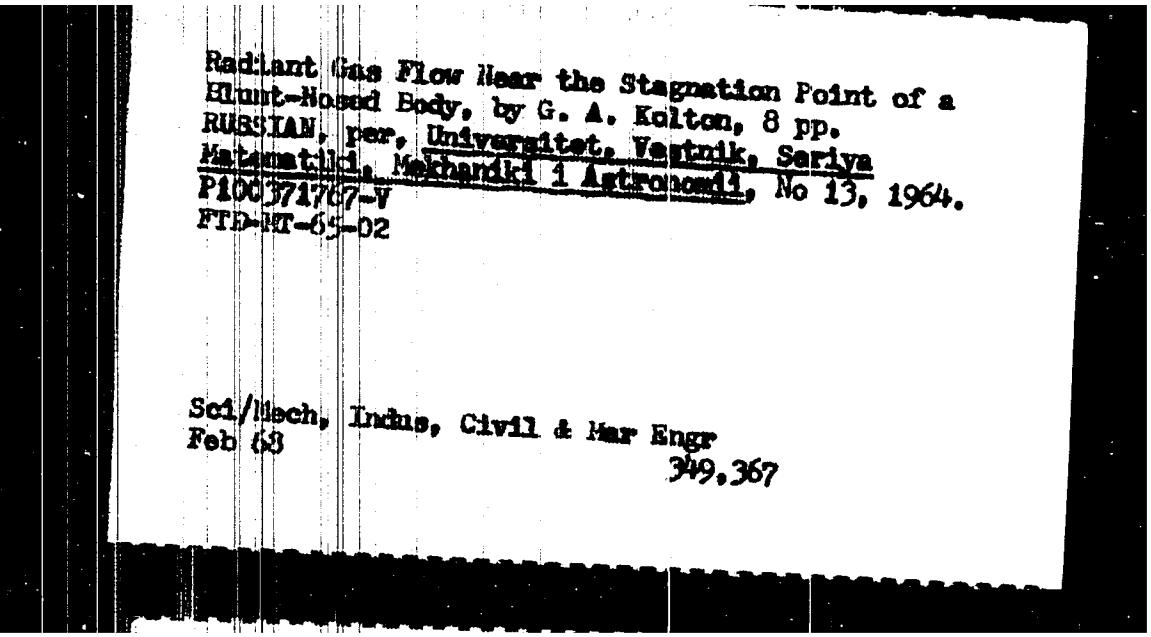

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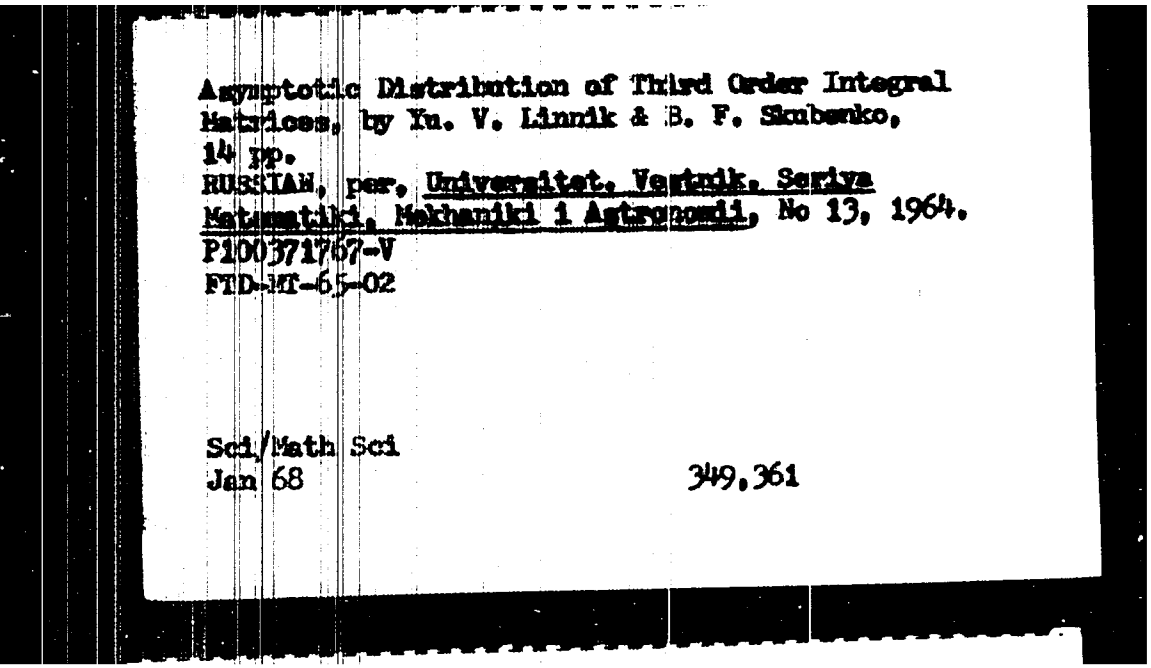

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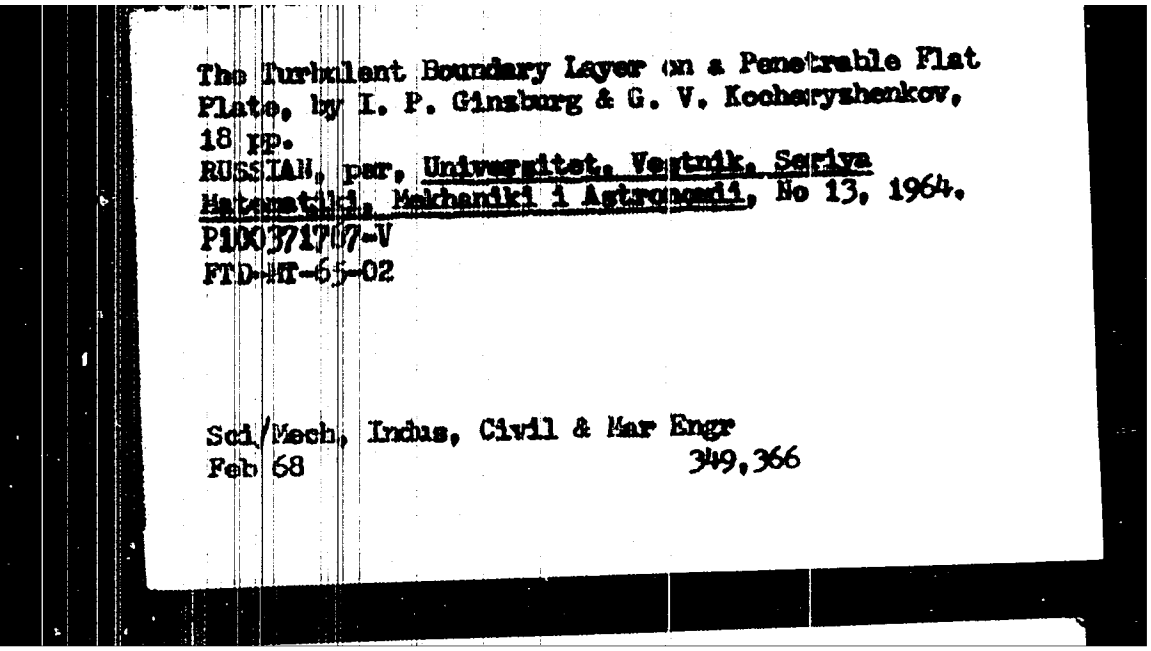

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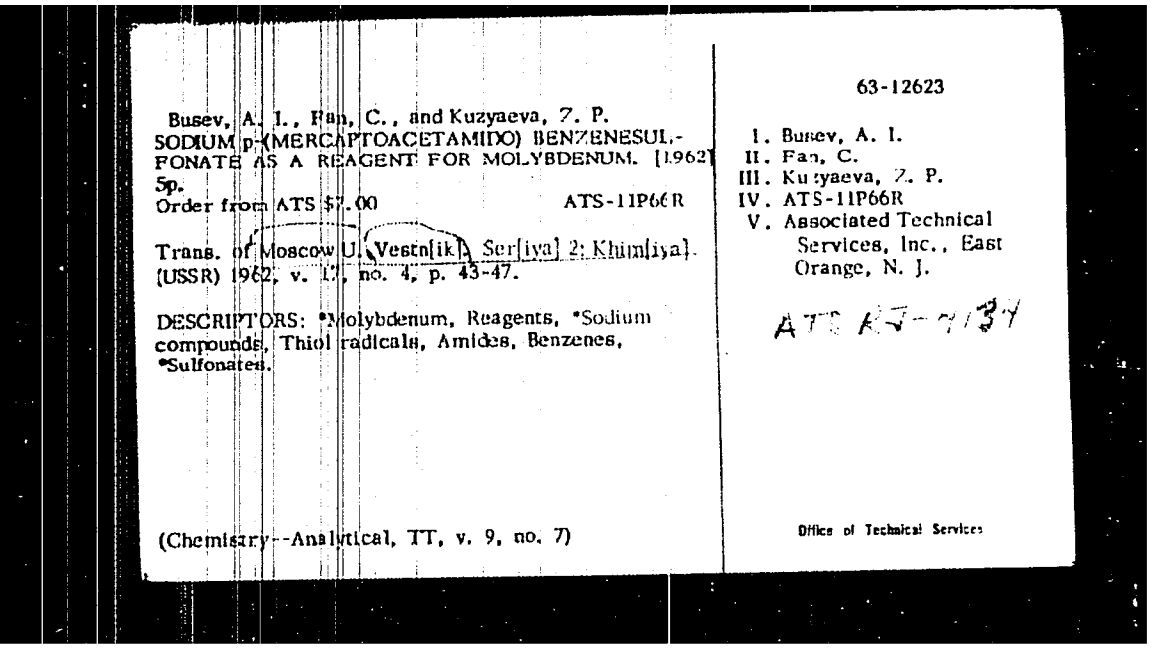

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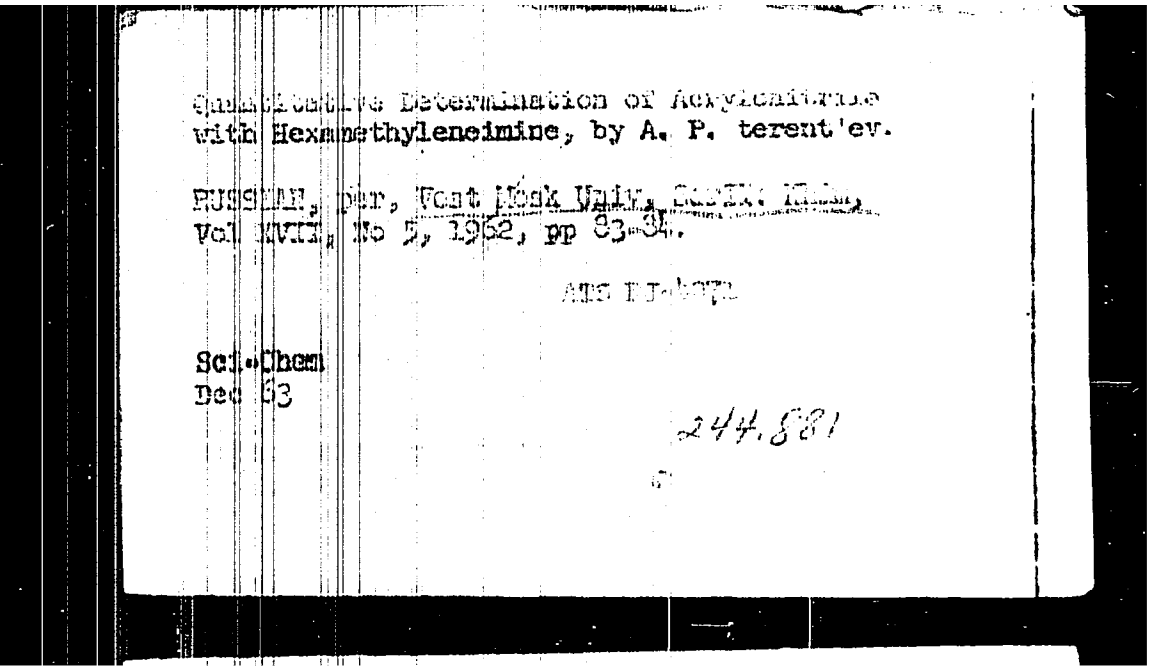

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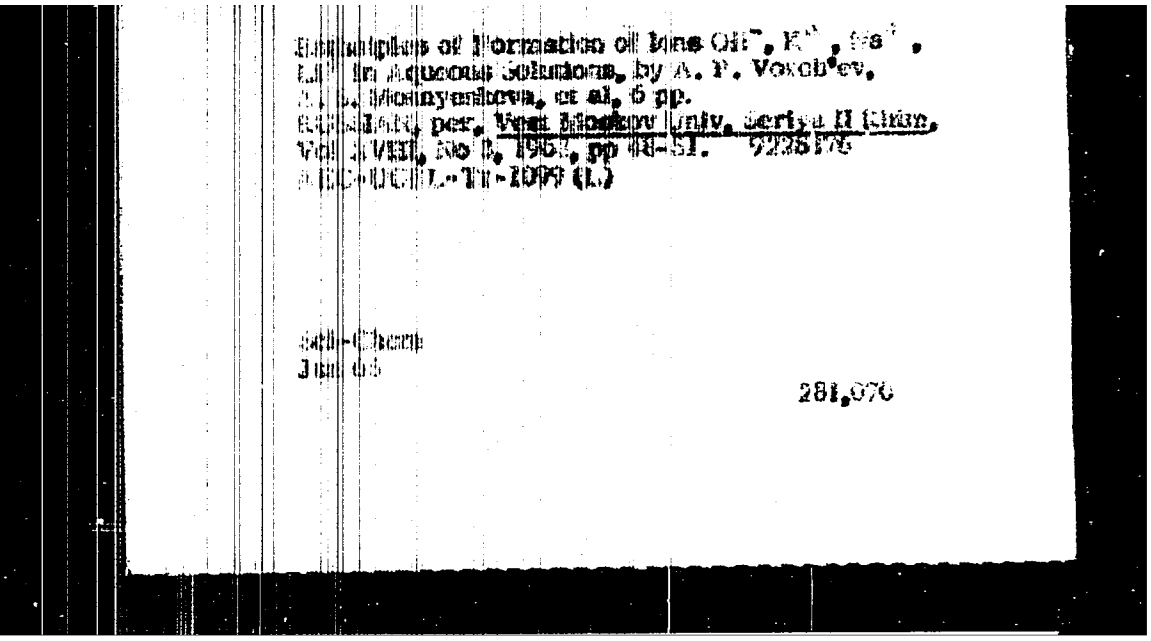

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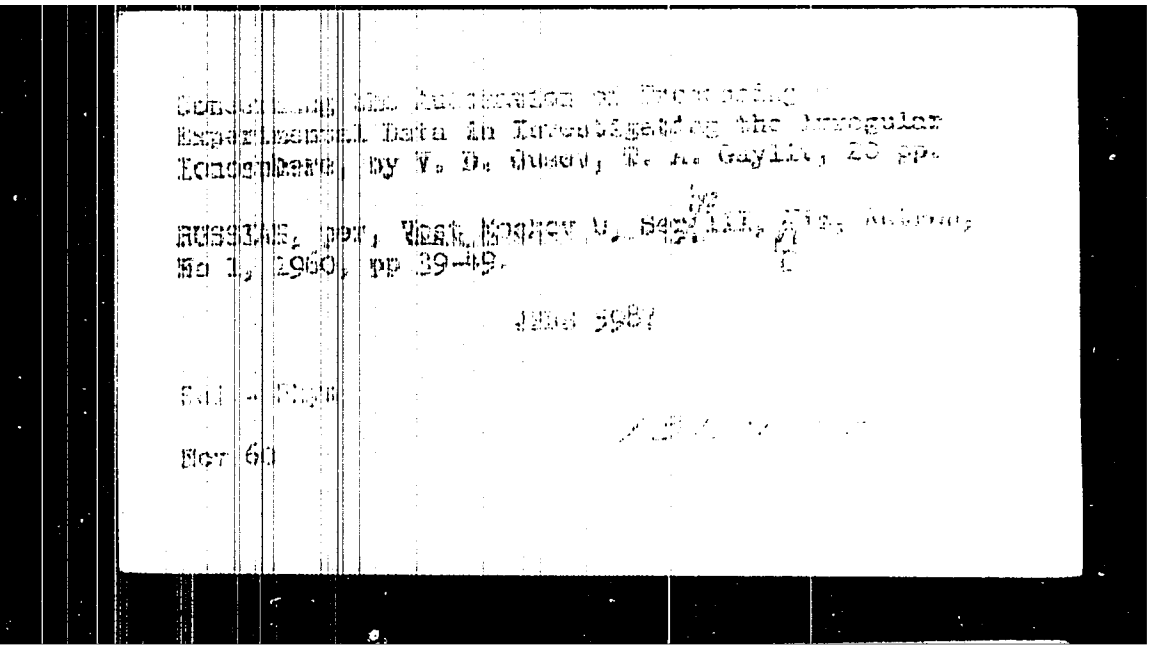

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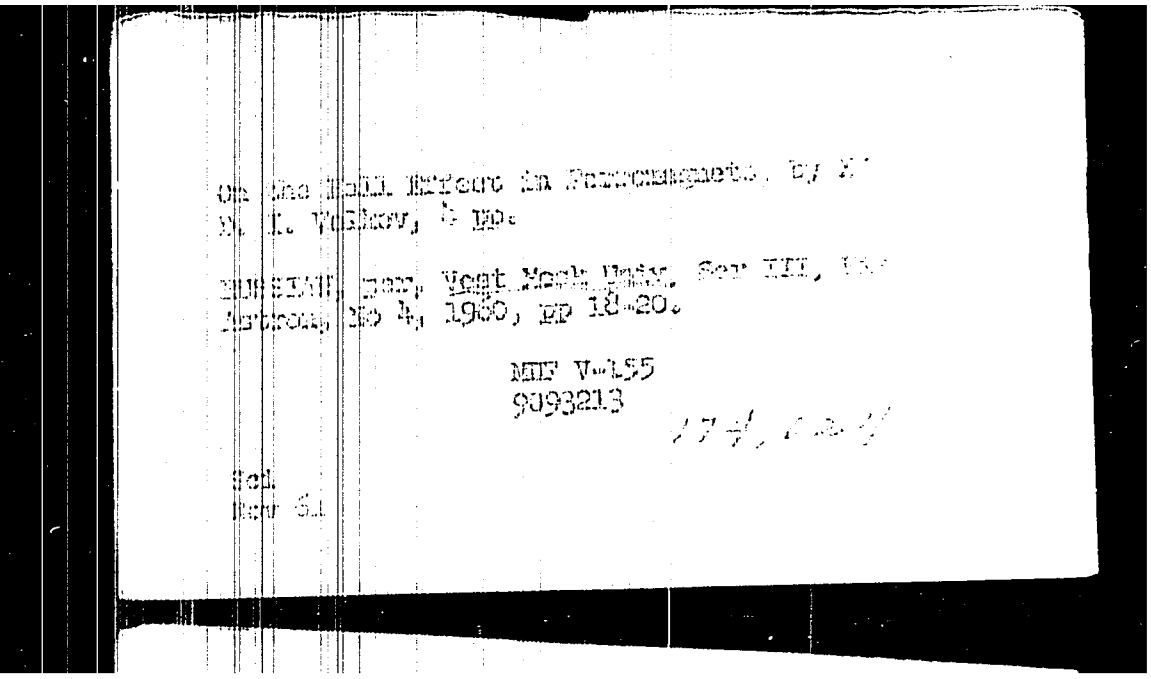

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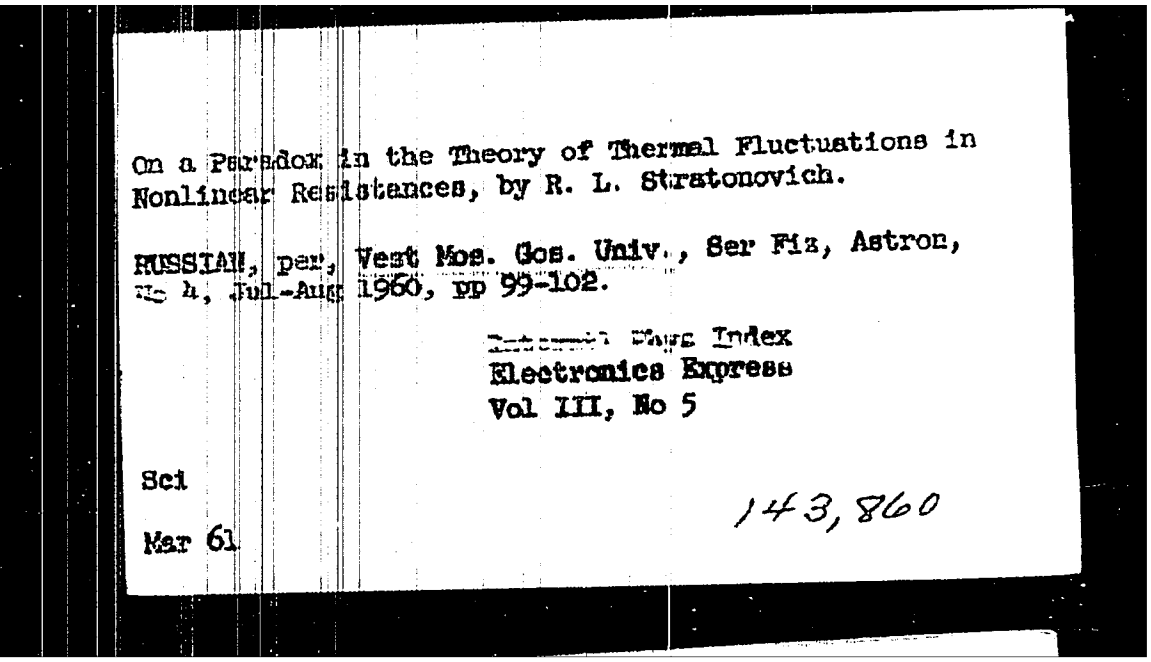

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Sci - Phys

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

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Osipov, D. I.
PRESERVATION OF THE MAXWELLIAN DISTRIBUTION FORM IN A RELAXING GAS (O Sokhranenii Formy Maksvellovskogo Raspredeleniya v Relaksiruyushchem Gaze) tr. by Andre L. Brichant. 30 Oct 61. [6]p. 3 refs. NASA TT F-8173.
Order from OTS or SLA $1.10 62-33206

Trans. of Moscow U. Vestnik. [Seriya 3: Fizika, Astronomiya] (USSR) 1961 [v. 16] no. 1, p. 13-15.

DESCRIPTORS: *Gases, Electrons, *Relaxation time, Thermodynamics, Statistical functions, Differential equations, Fluid dynamics, Velocity.

The process of Maxwellian equilibrium settling in a light gas surrounded by an atmosphere of heavy gas is being investigated. It is assumed that the interaction forces are inversely proportional to the fifth power of the distance. It is shown that the initial light gas
(Physics--Molecular, TT, v. 9, no. 7) (over)

62-33206

1. Title: Maxwellian distribution
I. Osipov, D. I.
II. NASA-TT-F-8173
III. National Aeronautics and Space Administration, Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

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A Simple Method of Tuning a Molecular Generator,
by G. P. Lyubimov, G. M. Strakhovskiy.

RUSSIAN, par, Vest Moskov Univ Seriya III
Fiz Astron, No 1, 1961, pp 79-81.

Navy Tr 3547/AFL 383

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

High-Frequency Oscillations in a Low-Pressure Discharge, by I. A. Savchenko, A. A. Zaytsev, 9 pp.

RUSSIAN, per, Vestnik Moscovskogo Universiteta, Seriya 3, Fizika, Astron, No 2, 1961, pp 19-25 9676301

FTD-TT-62-116

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Sci - Phys

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

Fursov, V. S.
DIPOLE INTERACTION AND SCATTERING OF LIGHT. tr. by Astrid Werner. Nov 62 [6]p. 5 refs.
Order from ARS in its Journal, v. 32, no. 11, $3.00

Trans. of Moskov U. Vestnik. [Seriya 3: Fizika, Astronomiya] (USSR) 1961 [v. 16] no. 2, p. 60-72.

DESCRIPTORS: *Light, Scattering, Dipole moment, Gases, Molecules, Optics, Field theory, Quantum statistics, Corrections.

(Physics--Optics, TT, v. 9, no. 1)

63-12216

1. Title: Rayleigh scattering
I. Fursov, V. S.
II. American Rocket Society, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

Radiation of Gravitational Waves by "Elementary Particles," by K. P. Stanyukovich, 16 pp.

RUSSIAN, par, Vest Moskov Univer, Ser III, Fiz i Astron, No 5, 1961, pp 71-82. 9664224

FTD-TT-61-394

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2 Mar 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

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The Theory of a Magnetogasdynamic Generator, by M. I. Kiselev, 9 pp.

RUSSIAN, per, Vest Moskov U, Ser III, Fiz, Astron No 1, 1962, pp 63-68. 96673/4

FTD-TT-62-1181

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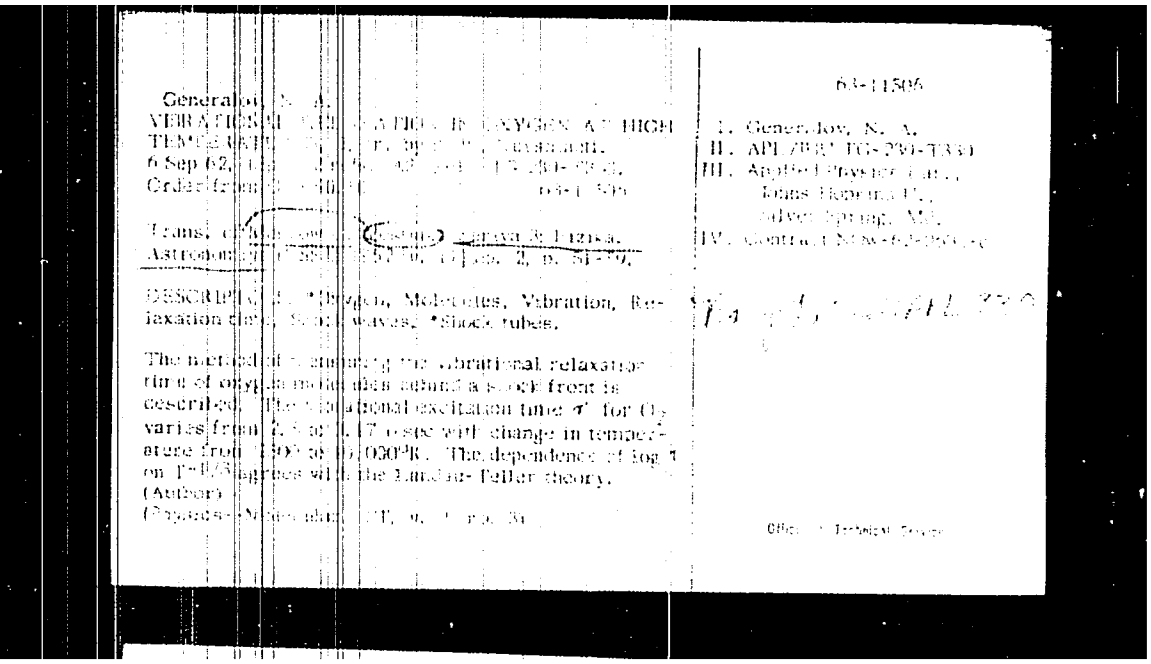

General[illegible] N. A.
VIBRATIONAL [illegible] IN OXYGEN AT HIGH TEMPERATURES [illegible]
6 Sep 62, [illegible]
Order from [illegible]

Trans. of [illegible] and Astronautics [illegible]

DESCRIPTORS: *Oxygen, Molecules, Vibration, Relaxation time, Shock waves, *Shock tubes.

The method of measuring the vibrational relaxation time of oxygen molecules behind a shock front is described. The vibrational excitation time τ for O_2 varies from 2.5 to 1.7 usec with change in temperature from 1500 to 7,000°R. The dependence of $\log \tau$ on $T^{-1/3}$ agrees with the Landau-Teller theory. (Author)

(Physics-Molecular theory) [illegible] p. 31

63-11506

I. Generalov, N. A.
II. AF[illegible]/RR[illegible] FG-291-TT60
III. Aerophysics Lab., Inst. Hydrod. U., Silver Spring, Md.
IV. Contract No. [illegible]

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201220075-9

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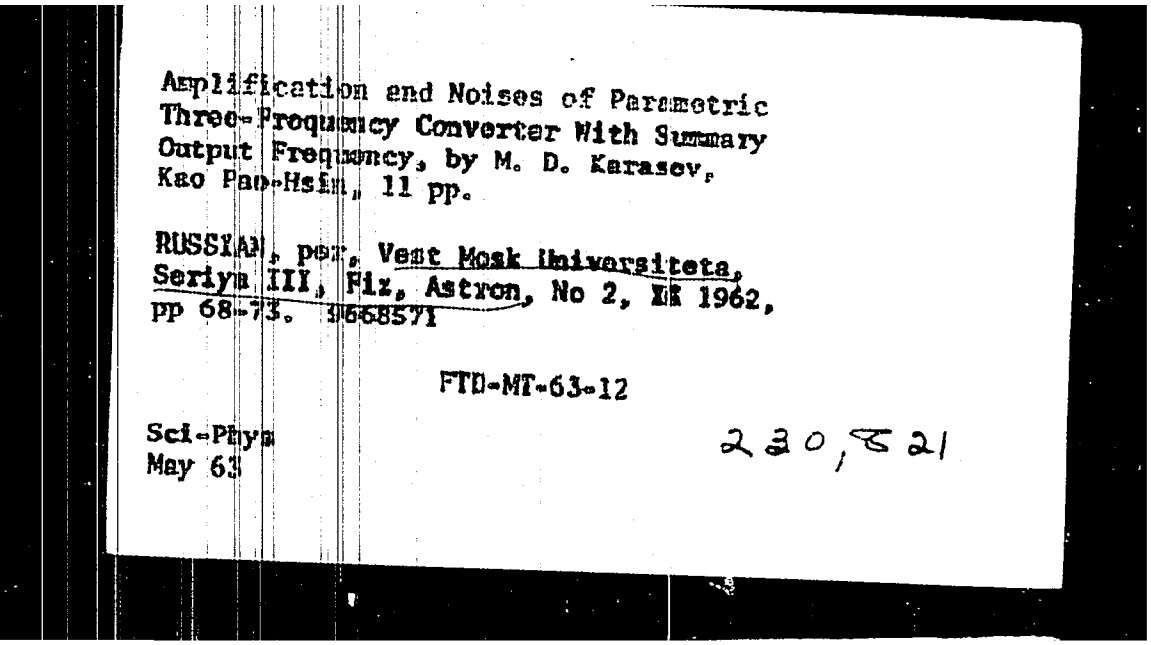

Amplification and Noises of Parametric Three-Frequency Converter With Summary Output Frequency, by M. D. Karasev, Kao Pao-Hsin, 11 pp.

RUSSIAN, per. Vest Mosk Universiteta, Seriya III, Fiz, Astron, No 2, Mr 1962, pp 68-73. 3668571

FTD-MT-63-12

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Distortion of Form of Ultrasonic Wave of Finite Amplitude in Solids, by V. A. Krasil'nikov, A. A. Gedroyts, 5 pp.

RUSSIAN, por. Vest Mosk Universiteta, Seriya III, Fiz, Astron, No 2, 1962, pp 92, 93. 9658624

PTD-MT-63-15

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